

## Sanga, Ravi

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**From:** Sanga, Ravi  
**Sent:** Wednesday, February 06, 2019 3:40 PM  
**To:** Dan Berlin; Brick Spangler  
**Cc:** Sloan, Jon; Hoffman, Erika; Patten, Kayla M CIV USARMY CENWS (USA); Gardiner, William W CIV USARMY CENWS (US); Joy Dunay; Evan Malczyk  
**Subject:** RE: T25 Habitat SAP-QAPP - EPA Comments

Dan and Brick –

EPA Has reviewed the T25 Habitat SAP-QAPP, submitted by the Port of Seattle Feb 4<sup>th</sup>, 2019. All EPA CERCLA comments have been addressed and EPA is approving the QAPP. The Port may proceed with sample collection and field work as scheduled.

Following sample collection, EPA will need to see the preliminary data and participate in decision making meetings regarding any analysis of archived material. The Draft Data Report will need to be submitted to EPA within 6 weeks upon the Ports receipt of the Data Validation Report. In addition, the QAPP/SAP is still being evaluated for QA/QC issues and any comments from that review will need to be addressed in the final data report.

Let me know if you have any questions.

Ravi

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**From:** Dan Berlin <dberlin@anchorqea.com>  
**Sent:** Monday, February 04, 2019 6:06 PM  
**To:** Sanga, Ravi <Sanga.Ravi@epa.gov>; Brick Spangler <Spangler.B@portseattle.org>  
**Cc:** Sloan, Jon <Sloan.J@portseattle.org>; Hoffman, Erika <Hoffman.Erika@epa.gov>; Patten, Kayla M CIV USARMY CENWS (USA) <Kayla.M.Patten@usace.army.mil>; Gardiner, William W CIV USARMY CENWS (US) <William.W.Gardiner@usace.army.mil>; Joy Dunay <jdunay@anchorqea.com>; Evan Malczyk <emalczyk@anchorqea.com>  
**Subject:** RE: T25 Habitat SAP-QAPP - EPA Comments

Ravi and Erika,  
Attached is the revised QAPP for the T-25S habitat project. We have addressed each of the comments from your December 11 email. The biggest change is that core samples will now be collected at 1 ft sample intervals below the subgrade elevation (rather than 2 ft intervals). A redline word file is also attached so you can see what changed. Sediment sampling is beginning on Monday February 11. Please let us know if you have any further comments before then.

Thanks

Dan

**Dan Berlin, PWS**  
Principal

**ANCHOR QEA, LLC**

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**From:** Sanga, Ravi <[Sanga.Ravi@epa.gov](mailto:Sanga.Ravi@epa.gov)>  
**Sent:** Tuesday, December 11, 2018 4:56 PM  
**To:** Brick Spangler <[Spangler.B@portseattle.org](mailto:Spangler.B@portseattle.org)>  
**Cc:** Dan Berlin <[dberlin@anchorage.com](mailto:dberlin@anchorage.com)>; Sloan, Jon <[Sloan.J@portseattle.org](mailto:Sloan.J@portseattle.org)>; Hoffman, Erika <[Hoffman.Erika@epa.gov](mailto:Hoffman.Erika@epa.gov)>; Patten, Kayla M CIV USARMY CENWS (USA) <[Kayla.M.Patten@usace.army.mil](mailto:Kayla.M.Patten@usace.army.mil)>; Gardiner, William W CIV USARMY CENWS (US) <[William.W.Gardiner@usace.army.mil](mailto:William.W.Gardiner@usace.army.mil)>  
**Subject:** RE: T25 Habitat SAP-QAPP - EPA Comments

Brick – EPA has reviewed the SAP for the T25 Habitat project for EPA review. Below are EPAs comments for soils and sediment characterization for the Port of Seattle's T25 Habitat restoration project.

1. Page 9, Section 2.6 (Project Schedule): Update anticipated time-frame for sampling since "summer of 2018" is already over.
2. Page 20, Section 4.1.2 (Sediment Cores), 2nd paragraph in section: Revise 2nd sentence since SC-05 doesn't appear to be located in the piling field. Also update Table 2 to reflect SC-05 not being in the piling field.
3. Page 20, Section 4.1.2 (Sediment Cores), 2nd paragraph in section and Section 4.2.2.3 (Subsurface Sediment Core Processing): Revise to indicate that samples below the subgrade will be collected in 1-ft intervals for analysis or archival. There is no need to be consistent with DMMP z-sample guidance since this testing is being conducted under the direction of CERCLA.
4. Page 21, Section 4.1.2 (Sediment Cores), first full paragraph on page: Revise text to indicate that cores will be collected to the maximum possible depth below mudline and targeting the design elevation associated with the leave surface after overlying material is removed. Indicate that any corrections based on core recovery (e.g., loss or compaction) will be discussed with EPA prior to adjustment of sampling intervals.
5. On Table 2, the phrase "Additional 2 ft to bottom of core" is a little confusing as it sounds like only 2 more feet of core will be taken. Rephrase to "Additional 1ft intervals until bottom of core".

Let me know if you have any questions or require any clarification.

Ravi

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**From:** Spangler, Brick <[Spangler.B@portseattle.org](mailto:Spangler.B@portseattle.org)>  
**Sent:** Wednesday, November 28, 2018 2:58 PM  
**To:** Sanga, Ravi <[Sanga.Ravi@epa.gov](mailto:Sanga.Ravi@epa.gov)>  
**Cc:** [dberlin@anchorage.com](mailto:dberlin@anchorage.com); Sloan, Jon <[Sloan.J@portseattle.org](mailto:Sloan.J@portseattle.org)>; Hoffman, Erika <[Hoffman.Erika@epa.gov](mailto:Hoffman.Erika@epa.gov)>  
**Subject:** T25 Habitat SAP-QAPP

Hey Ravi,

Hope your Thanksgiving was great. Like Dan and I discussed with you on the November 15<sup>th</sup> at our EW meeting we are submitting our SAP for the T25 Habitat project for EPA review (attached). Also as mentioned, we have a very tight window to complete the upland drilling (before Christmas) since portions of T25 are leased by the contractor demolishing the viaduct. They will be mobilizing and preparing the site in in late December/early January and will be there for a minimum of 18-24 months. Please let me know if we can set of a time next week to discuss this SAP. Also let me know if there is any else we can do to help expedite this review. Thanks

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